

# Active Recombinant Full Length Human FTO Protein, FLAG tagged

Cat. No. FTO-05HFL Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant FTO protein was expressed in a Baculovirus expression system as the full length protein (accession number XP\_011521615.1) with an N-terminal FLAG-Tag.

**Species** Human

**Source** Insect cells

**ProteinLength** 1-505 aa

**Storage** Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

**Storage Buffer** 25 mM HEPES pH 7.5, 300 mM NaCl, 5% glycerol, 0.04% Triton X-1000.2 mM TCEP.

**Applications** Recombinant FTO protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity profiling. 3  $\mu$ M m6A ssDNA oligos (DNA sequence: 5'-GTTGCCTGTTCTCGTGG/m6A/CTTGCCTGT-3') were incubated with FTO protein in reaction buffer including 50 mM HEPES pH 7.5, 100  $\mu$ M 2OG, 100  $\mu$ M Ascorbate, 50  $\mu$ M (NH<sub>4</sub>)<sub>2</sub>Fe(SO<sub>4</sub>)<sub>2</sub>·6H<sub>2</sub>O and 1 mM TCEP for 2 hours at room temperature. Dot-Blot was used for activity detection.

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**Concentration** 0.3 µg/µL

## GENE INFORMATION

**Official Symbol** [FTO](#)

**Synonyms** FTO; fat mass and obesity associated; alpha-ketoglutarate-dependent dioxygenase  
FTO; KIAA1752; MGC5149; protein fto; fat mass and obesity-associated protein

**Gene ID** [79068](#)

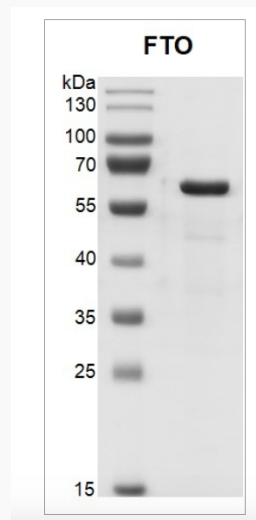
**mRNA Refseq** [NM\\_001080432](#)

**Protein Refseq** [NP\\_001073901](#)

**MIM** [610966](#)

**UniProt ID** [Q9C0B1](#)

## SDS-PAGE




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Recombinant FTO protein, SDS-PAGE gel. Recombinant FTO protein was run on an 8% SDS-PAGE gel and stained with Coomassie Blue. MW: 60.4 kDa Purity: > 95%

FTO (uM)	0.9	0	0.3	0.9	
m <sup>6</sup> A ssDNA (uM)	0	3	3	3	
					Anti-m <sup>6</sup> A

### Activity

Recombinant FTO protein activity. 3 μM m<sup>6</sup>A ssDNA oligos (sequence: 5'-GTTGCCTGTTTCGTGTTGG/m<sup>6</sup>A/CTTGCCTGT-3') were incubated with FTO protein in reaction buffer for 2 hr. at RT. Reaction products spotted onto nylon membrane were detected with m<sup>6</sup>A antibody. FTO alone was used as negative control.

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